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1 Designing human-computer interfaces for quadriplegic people

Constantine E. Steriadis, Philip Constantinou

June 2003   **Transactions on Computer-Human Interaction (TOCHI)**, Volume 10 Issue 2
Publisher: ACM

Full text available: Pdf (1.20 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 271, Citation Count: 9

The need for participation in an emerging *Information Society* has led to several research efforts for designing accessibility solutions for disabled people. In this paper we present a method for developing Human-Computer Interfaces (HCIs) for ...

Keywords: Accessibility, assistive technology, augmentative communications, disability, graphical keyboard, motor-impaired users, mouse simulation, quadriplegic people, scanning selection, single-switch input, wifsid, word-prediction

2 ACM task force on K–12 education and technology

Teri Perl

May 1993   **Communications of the ACM**, Volume 36 Issue 5
Publisher: ACM

Full text available: Pdf (1.09 MB)   Additional Information: full citation, index terms, review

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 26, Citation Count: 0

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3 Visual attention-based polygon level of detail management

Ross Brown, Luke Cooper, Binh Pham

February 2003   **GRAPHITE '03:** Proceedings of the 1st international conference on Computer graphics and interactive techniques in Australasia and South East Asia

Publisher: ACM

Full text available: Pdf (4.11 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 39, Citation Count: 3

Modern real-time graphics systems are required to render millions of polygons to the screen per second. However, even with this high polygon rendering bandwidth, there are still applications which tax this rendering capability. We introduce in this paper ...

Keywords: level of detail management, real-time graphics, visual attention

4 ACM SIGGRAPH Computer Graphics: Volume 37 Issue 2

May 2003   SIGGRAPH Computer Graphics

Publisher: ACM

Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

5 Designing the new American schools

Robert Pearlman

May 1993   **Communications of the ACM** , Volume 36 Issue 5

Publisher: ACM

Full text available: Pdf (3.11 MB)   Additional Information: full citation, index terms, review

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 18, Citation Count: 0

6 Designing overlay multicast networks for streaming

Konstantin Andreev, Bruce M. Maggs, Adam Meyerson, Ramesh K. Sitaraman

June 2003   **SPAA '03:** Proceedings of the fifteenth annual ACM symposium on Parallel algorithms and architectures

Publisher: ACM

Full text available: Pdf (232.37 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 44, Citation Count: 4

In this paper we present a polynomial time approximation algorithm for designing a multicast overlay network. The algorithm finds a solution that satisfies capacity and reliability constraints to within a constant factor of optimal, and cost to within ...

Keywords: approximation algorithms, network design, network reliability, streaming media

7 Implementing a tenth strand in the CS curriculum

C. Dianne Martin, Chuck Huff, Donald Gotterbarn, Keith Miller

December 1996   **Communications of the ACM** , Volume 39 Issue 12

Publisher: ACM

Full text available: Pdf (257.18 KB)   Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 48, Citation Count: 17

8 Generating presentation constraints from rhetorical structure

Lloyd Rutledge, Brian Bailey, Jacco van Ossenbruggen, Lynda Hardman, Joost Geurts

May 2000   **HYPERTEXT '00:** Proceedings of the eleventh ACM on Hypertext and hypermedia

Publisher: ACM

Full text available: Pdf (233.19 KB)   Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 47, Citation Count: 15

Keywords: authoring, constraints, meta-structure, presentation generation, rhetorics

9 Ethical issues related to internet development and research

M. Dee Medley, Rebecca H. Rutherfoord, G. Ernest Anderson, R. Waldo Roth, Stuart A. Varden

December 1998   **ITiCSE-WGR '98:** Working Group reports of the 3rd annual SIGCSE/ SIGCUE ITiCSE conference on Integrating technology into computer science education

Publisher: ACM

Full text available: Pdf (77.36 KB)   Additional Information: full citation, references, index terms

Bibliometrics: Downloads (6 Weeks): 69, Downloads (12 Months): 382, Citation Count: 0

10 Voice biometrics

Judith A. Markowitz

September 2000   **Communications of the ACM** , Volume 43 Issue 9

Publisher: ACM

Additional Information: full citation, references, cited by, index terms

Full text available: Html (36.88 KB), Pdf (240.49 KB)

Bibliometrics: Downloads (6 Weeks): 47, Downloads (12 Months): 285, Citation Count: 4

11 Machine learning of event segmentation for news on demand

Stanley Boykin, Andrew Merlino

February 2000   **Communications of the ACM** , Volume 43 Issue 2

Publisher: ACM

Additional Information: full citation, appendices and supplements, references, cited by, index terms

Full text available: Html (31.54 KB), Pdf (433.25 KB)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 108, Citation Count: 8

12 Securing context-aware applications using environment roles

Michael J. Covington, Wende Long, Srividhya Srinivasan, Anind K. Dev, Mustaque Ahamad, Gregory D. Abowd

May 2001   **SACMAT '01:** Proceedings of the sixth ACM symposium on Access control models and technologies

Publisher: ACM

Full text available: Pdf (131.07 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 29,   Downloads (12 Months): 186,   Citation Count: 35

In the future, a largely invisible and ubiquitous computing infrastructure will assist people with a variety of activities in the home and at work. The applications that will be deployed in such systems will create and manipulate private information ...

Keywords: context aware computing, role-based access control

13 DAVE: a system for quality driven adaptive video delivery

Surya Nepal, Uma Srinivasan

November 2003   **MIR '03:** Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval

Publisher: ACM

Full text available: Pdf (532.59 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 25,   Citation Count: 1

Delivering relevant video segments (video highlights) to a variety of devices operating under both wired and wireless platforms requires: (a) a mechanism for describing video content, and the environment in which it is to be delivered, and (b) a framework ...

Keywords: adaptation algorithm, video adaptation, video delivery, video quality, video retrieval

14 Video parsing, retrieval and browsing: an integrated and content-based solution

H. J. Zhang, C. Y. Low, S. W. Smoliar, J. H. Wu

January 1995   **MULTIMEDIA '95:** Proceedings of the third ACM international conference on Multimedia

Publisher: ACM

Full text available: Html (51.17 KB)   Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 22,   Downloads (12 Months): 134,   Citation Count: 56

Keywords: database, multimedia, video browsing, video indexing, video parsing, video retrieval

15 Ethics, lies and videotape...

Wendy E. Mackay

May 1995   **CHI '95:** Proceedings of the SIGCHI conference on Human factors in computing systems

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: Html (47.44 KB)   Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 24,   Downloads (12 Months): 146,   Citation Count: 17

16 MAESTRO: conductor of multimedia analysis technologies

CORPORATE The SRI MAESTRO Team

February 2000 **Communications of the ACM** , Volume 43 Issue 2

Publisher: ACM

Additional Information: full citation, appendices and supplements, references, cited by, index terms

Full text available: Html (33.60 KB), Pdf (665.60 KB)

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 52,   Citation Count: 2

17 Technology in education (introduction)

Elliot Soloway

May 1993   **Communications of the ACM** , Volume 36 Issue 5

Publisher: ACM

Full text available: Pdf (3.84 MB)   Additional Information: full citation, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 10,   Downloads (12 Months): 64,   Citation Count: 4

18 Multi-party distributed audio service with TCP fairness

Milena Radenkovic, Chris Greenhalgh

December 2002   **MULTIMEDIA '02:** Proceedings of the tenth ACM international conference on Multimedia

Publisher: ACM

Full text available: Pdf (252.69 KB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 28,   Citation Count: 3

Distributed Partial Mixing is an approach to creating a distributed audio service that supports optimisation of bandwidth utilization across multiple related audio streams (e.g. from concurrently active audio sources) while maintaining fairness to TCP ...

Keywords: TCP-fairness, adaptation, audio, congestion control, distributed partial mixing, mixing, multi-party audio

19 The automatic generation of formal annotations in a multimedia indexing and searching environment

Thierry Declerck, Peter Wittenburg, Hamish Cunningham

July 2001 **Proceedings of the workshop on Human Language Technology and Knowledge Management - Volume 2001** , Volume 2001

Publisher: Association for Computational Linguistics

Full text available: Pdf (103.78 KB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 28,   Citation Count: 4

We describe in this paper the MU-MIS Project (Multimedia Indexing and Searching Environment), which is concerned with the development and integration of base technologies, demonstrated within a laboratory prototype, to support automated multimedia indexing ...

20 The role of spoken feedback in experiencing multimodal interfaces as human-like

Pernilla Qvarfordt, Arne Jönsson, Nils Dahlbäck

November 2003 **ICMI '03:** Proceedings of the 5th international conference on Multimodal interfaces

Publisher: ACM

Full text available: Pdf (354.02 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 62,   Citation Count: 1

If user interfaces should be made human-like vs. tool-like has been debated in the HCI field, and this debate affects the development of multimodal interfaces. However, little empirical study has been done to support either view so far. Even if there ...

Keywords: Wizard of Oz, anthropomorphism, multimodal interaction, spoken feedback

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